

□ Process to **clean membrane** water filter unit back-flushes permeate side - involves partially or fully emptying separated particles treated with an oxidising agent, back-flushing and tangential rinse, etc..

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In a process to clean a dead-end or micro-filtration membrane water filter unit, the filter is freed of filtered residues by back-flushing from the permeate side and/or the direction of a tangential rinse on the filter fluid side. The improvement is that: (a) prior to the back-flush action, the filter is partially or fully emptied, the separated particles are treated with an oxidising agent; (b) the first action (a) is followed by back-flushing and tangential rinse; (c) the oxidation process is effected at enhanced temperature between 70 and 160 degrees Celsius; (d) the oxidation agent is oxygen-enriched **air mixed** with steam; (e) the process is undertaken at a pressure of between 1 and 6 bar; (f) the cleaning and filtration processes are carried out alternately.  
USE - Process to clean a dead-end or micro-filtration membrane water filter unit.  
ADVANTAGE - The process is simple, cheap, effective, requires little energy, and reduces the frequency with which chemical treatment is necessary.  
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